Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Claim1. (Original): A smoking behaviour analyser comprising:

smoking article mounting means, by which a smoking article can be mounted at a mouth

end thereof, the mounting means comprising a mouthpiece which, when holding a smoking

article, is in fluid-flow communication with the mouth end of the smoking article;

fluid flow pressure drop detection means and smoke density detection means;

signal conversion means operable to convert signals obtained from the fluid flow pressure

drop detection means and smoke density detection means into data;

data processing means operable to process data, the data processing means comprising a

processor operable to process a calculation of a delivery value of particulate phase smoke

components from a smoking article when mounted by the mounting means and being smoked via

the mouthpiece;

and display means operable to display processed data in graphical and/or numerical form.

Claim 2. (Original): A smoking behaviour analyzer according to Claim 1, wherein said fluid

flow pressure drop detection means comprises two openings in the mounting means, one opening

each being located at either side of an orifice plate, and the openings being connected to pressure

sensors.

Claim 3. (Original): A smoking behaviour analyser according to Claim 2, wherein said pressure

sensors are pressure transducers.

A smoking behaviour analyser according to Claim 2 [for

3]], wherein said pressure sensors are located in data acquisition means or data processing means.

Claim 5. (Currently Amended):

A smoking behaviour analyser according to Claim 2 [[or

3]], wherein said pressure sensors are located in the mounting means.

Claim 6. (Currently Amended):

A smoking behaviour analyser according to any one of

Claims 2-5 Claim 1, wherein said pressure transducers are SenSym SCX 01DM or the like.

Claim 7. (Currently Amended):

A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein said fluid flow pressure drop detection means is operable to

take two pressure measurements; one being the difference in pressure between atmospheric

pressure and that within the holder, and the other being the pressure difference between either

side of the orifice plate, this pressure difference being proportional to the flow through the

orifice.

Claim 8. (Currently Amended):

A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein said smoke density detection means comprises a light emitter

and a light receiver.

Claim 9. (Original): A smoking behaviour analyser according to Claim 8, wherein said light

emitter is a device which emits light at visible or other wavelengths.

Claim 10. (Original): A smoking behaviour analyser according to Claim 9, wherein said light

emitter is a light emitting diode (LED).

Claim 11. (Currently Amended): A smoking behaviour analyser according to Claim 9 [[or

10]], wherein said light detector is a device selected for optimum performance at the wavelength

of the emitted light.

Claim 12. (Original): A smoking behaviour analyser according to Claim 11, wherein said light detector is a photodiode.

Claim 13. (Currently Amended): A smoking behaviour analyser according to any one of Claims 8-12 Claim 8, wherein said light emitter and said light receiver are located opposite to one another within the mounting means.

Claim 14. (Original): A smoking behaviour analyser according to Claim 13, wherein the distance between said emitter and said receiver is between 2-6mm.

Claim 15. (Original): A smoking behaviour analyser according to Claim 14, wherein the distance is about 4mm.

Claim 16. (Currently Amended): A smoking behaviour analyser according to any one of the preceding claims Claim 1, wherein said smoke analyser is portable.

Claim 17. (Currently Amended): A smoking behaviour analyser according to any one of the preceding claims Claim 1, wherein said signal conversion means is located distant the mounting means.

Claim 18. (Original): A smoking behaviour analyser according to Claim 17, wherein said signal conversion means is located in unit with data processing means.

Claim 19. (Currently Amended): A smoking behaviour analyser according to any one of the preceding claims Claim 1, wherein said signal conversion means is located separately from data processing means.

Claim 20. (Currently Amended): A smoking behaviour analyser according to any one of the preceding claims Claim 1, wherein said data processing means additionally comprises data acquisition means.

Claim 21. (Original): A smoking behaviour analyser according to Claim 20, wherein said signal

conversion means is located in said data acquisition means.

Claim 22. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein said data processing means and said data display means are

located in unit with one another.

Claim 23. (Currently Amended): A smoking behaviour analyser according to any one of

Claims 1-18 or 20-22 Claim 1, wherein signal conversion and data processing occur in unit with

the mounting means.

Claim 24. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein storage means is provided in unit with the mounting means or

alternatively located separately therefrom.

Claim 25. (Currently Amended): A smoking behaviour analyser according any one of the

preceding claims to Claim 1, wherein said data processing means is a computer, with a processor,

the computer being loaded with a suitable program.

A smoking behaviour analyser according to any one of the Claim 26. (Currently Amended):

preceding claims Claim 1, wherein said data processing means communicates bi-directionally

with the source of data, which may be either the mounting means, signal conversion means or the

data acquisition device, and carries out the necessary calculations to determine the required

smoking behaviour information and smoke deliveries.

Claim 27. (Currently Amended): A smoking behaviour analyser according to Claim 25 [for

26]], wherein said data processing means is a laptop computer.

Claim 28. (Currently Amended): A smoking behaviour analyser according to any one of

Claims 25-27 Claim 25, wherein said data processing means also comprises said display means.

Claim 29. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein said display means displays real-time information about each

puff.

Claim 30. (Original): A smoking behaviour analyser according to Claim 29, wherein the puff

information displayed includes one or more of puff volume, puff shape, puff duration, smoke

concentration, smoke mass per unit time, optical density, mean pressure drop, effort and time

period.

Claim 31. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein the display of one or more of this data is in graphical form

individually for each puff taken by the smoker.

Claim 32. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein the puffing profile and associated data is retained by the

processing means for further examination.

Claim 33. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein said processing means is programmed to reset before

acquisition of data between every smoke and zeroes the fluid pressure drop detection means and

smoke density detection means.

Claim 34. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein the signals derived from the fluid-pressure drop detection

means and smoke density detection means are transferred to the data processing device in a

conductorless fashion.

Claim 35. (Original): A smoking behaviour analyser according to Claim 34, wherein signal

transfer is by electromagnetic wave means.

Claim 36. (Currently Amended): A smoking behaviour analyser according to any one of the

preceding claims Claim 1, wherein the signals derived from the fluid-pressure drop detection

means and smoke density detection means are transferred to the data processing device transfer

by using electrical leads for the optical signals and flexible tubing for the pressure measurements.

Claim 37. (Canceled)

Claim 38. (Original): A smoking behaviour analyser according to Claim 1, wherein

measurement, conversion and transmission of data at the mounting means, separate from

processing thereof at a remote location does not occur, unless there is additionally processing of

the converted data at the mounting means prior to transmission to display means.